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BY	CLASS	SUBCLASS
DRAFTSMAN		

Appln No.: 08/862,442 Page 1 of 20
Applicant(s): Andrew W. Shyjan
POSITIONS AND METHODS FOR THE DIACESIS,
PREVENTION AND TREATMENT OF TUMOR
PROGRESSION

LANE 1 LANE 2 LANE 3

romy 030 —



FIG. 1

LANE 3 LAN3 4 LANE 5 LANE 6

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FIG. 4

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Applin 1208/862,442 Page 2 520
Application: Andrew W. Shyjan
COMPOSITIONS AND METHODS FOR THE DIAGNOSIS,
PREVENTION AND TREATMENT OF TUMOR
PROGRESSION

FIG. 2

GGTGCTGGAGTACCTCATGGGCGGTGCCTACCGCTGCAACTACACTCGGAAAAAGCTTCCGGACTCT CTACAACAACTTGTTTGGCCCTAAGAGGGTAGAGCTCAGCAGACACACAGTGTCCTGTGCCTCCC AGAGTAACATGTGGTTCCTTGATGTGCTTCCCCAAAAGCCCACCTGTGCAGAATG (SEQ ID NO: 1)

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Applicant (s): 08/862,442 Page f 20
Applicant(s): Andrew W. Shyjan
COMPOSITIONS AND METHODS FOR THE DIAGNOSIS,
PREVENTION AND TREATMENT OF TUMOR
PROGRESSION

80 160 240 320	380	440	200	960 80	620 100	680 120	740	800 160	860 180	920
AAGGAGGCTAGGCTGCACCCTTCCCGCTTGCTCAGCAGGTGAGGGGTCAGAAAGCATGGATAGAGAAGAACATTTTGCAAAAGAGAATGCTAGCTCACTAACCAGCACAT AAAAGGGAATGCATCTTTGTAATTCCCAGTACAAAAGACCCTAACAGATGTTGCTGTGGTCAGCTCAGTAACCAGCACAT CCCCCCTTTGCCGAGTGGGGCTCCCAGCACAACAGGAGGAGACCCAAGGAGGAGACAGAGCAGTCGGGAAATGGTCTG TCAGCAAACACCCAGAGCTACCCAACAGACTCCTATGGGATTCTTGAATTCCAAGGGTGGGGGTTACTCCAATAAAGCC	AAG	TTC	ACC	GAT		S C	ATC	AGA CAG'CTG R Q L	org v	GAA
ACAT CCAG NATO	GTG V	AGC	ATG M	9 9 9	S P ·	TAT Y	7.7C	CAG Q	GTC V	X A
TAAC	ATG M	CAA	OCC V	GTG V	ATT GCT	GTC V	CAC	AGA R	CCT P	CIC
PAGAC PTCCC PTTAC	CTC ATG	CIC	GCT A	CAT H	ATA GGA I G	AGA R	ACT CAC T H	CGA R	GTA V	TAT Y
CAGC	CAC	၁ ၁	AAG K	AGC S	ATA I	ACA T	CAC	CIT	GGT G	GAG
GCAT TOGT NACAC	CIC	g G	ATC	GTC V	SCT A	cta >	AAT TCC N S	AAG K	CAG	CTC L
CCAC	C 13	CAC H	5 12 13	GTC V	TGT	GAT D	AAT	GTG V	ည္သတ္သ	GTC V
GCAG	TCC S	GTG V	GGT G	G G	CIC	* &	N AC	GAG E	CTG	ATC
CAGA	AAG CCA GAT TCC K P D S	TCT	X AA	ACT	9 20 20 20 20	G GGA	CIC	GCT	AGG R	TCT S
CTA	CCA P	ATA I	99 9	AGC S	ပ္တ	ATT	6TG >	TAT GGT Y G	ACA T	GTT V
AGACC AGACC AGAC	AAG K	TTG	TTT	GTG >	AGA R	CIG L	TCT	TAT Y	AAC	GTG V
YAAA YAAAA CAGG	ACC /	CTC L	GTG V	ogt G	TCC	GAC	CIC	AAG K	ATC I	AAC N
TCCT GTAC ACAA AGAC	GAC	AAG K	CAG Q	ဗ္ဗ	AAG	GAA	AAG	ပ္သဗ္	AAG	CCT
CAAC	TAC Y	CCG	AAG K	ACC T	TCC	AAG	AGC	ر تاو	CAG	£5 5
AATT CTCC TACC	TCC	CIC L	CIG	TTC	TCC	AAC	CIG	ACC	CTC	CGT C
ACCC TTGT GGGG	GTC V	GAG	X X	ATC	CAC	GAG	CCT	ည ည	TCC	GAA
ATCT BAGT	CGA R	CTG	TCC	TGG X	GAC	GTG V	AAC	AAC	ATC	द्धाः ४
NTGC NTGC TGCO		CAG	CAG	900 4	XXX	ATG (TCC S	GAC	CAC	GTG S
AGGC GGGA CCTT	TAC ATC Y I	TGG ×	ATG (9 9 9	TTG 7	7 250	ATG 1	GCT (AAA C	CTA C
AAGGAGGCTAGGCTGC AAAAGGGAATGCATCT CCCCCCTTTGCCGAGTV TCAGCAAACACACCCA	ATG N	GAC 7	GAG A	7 T	CCC 1	735 ¥	ACC /	TTG O	GAA A	၁ ၁ ၁ ၁ ၁

FIG. 34

Apple No.: 08/862,442 Page 4 of 20 Apple Int(s): Andrew W. Shyjan COMPOSITIONS AND METHODS FOR THE DIAGNOSIS, PREVENTION AND TREATMENT OF TUMOR PROGRESSION

980 220 1100 1160 280 260 1220 300 1280 320 CAG O ACC T X AG AGC S GAC ¥ ¥ TCC S 200 700 4 S S S 8 ACC T ATA I TCC S AAG K GAC ည **۷** 0 0 313 ы ы TCC GAG S S ACC T ы AAG ट्राट < **წ** ე AGT S g AGC S C E C G G ۲ GAG E A B CCA P धु Ö AAT ¥ ¥ 95 U A AG ट्राट FE ы ~ Σ X A AGC S GAA E g ဗ ۵ ω GAG GAG E AAG K × GAT D AAG X Ø F į

FIG. 3B

Appln No.: 08/862,442
Page 5 of 20
icant(s): Andrew W. Shyjan
CMPOSITIONS AND METHODS FOR THE DIAMOSIS,
PREVENTION AND TREATMENT OF TUMOR
PROGRESSION

1520 4 00	1580 420	1640	1700 460	1760 480	1820 500	1880 520	1940 540	2018
CTA L		Ţ	ATT I	000 8	AGA R	AAG K	CCT.	CCCAGTGCAGGCCTCCTAGCTTTCACATGCAGCCATTCACATGCCCTCTCAAGACTGGGCCAGGC 2018 (SEQ ID NO: 3)
	CIC	CAT H					2 4	Ş A
GTC V	TTC	CIT	CIC	ACT T	AGC S	S C	CCA P	999 C
CTT.	CAT H	ACC	AGC S	TAC Y	CTC	CCC	ACC T	SACT
GCT A	CAG Q	AAC N	ATC	AAC N	GAG 'CTC E L	CTT	ATC I	CAAC)
GAT D	ATG M	CCA P	CAC H	TGC C	gta V	STG V	GAC ATC D I	CTCT
CTG L	AAC	P CG	TAC Y	2 2 8	AGG R	GAT GTG D V	ACT	TCCC
ATG M	STG /	၁၅ ၁၅	GAT	TAC Y	AAG K	CTT	CAA O	CACA
CAA GCC	AAC GGA G	CIG L	CCT	OCC V	CCT	TTC F	TCC	CAT
CAA	AAC N	AGA R	CTT CCA	o G	TTT GGC F G	TGG ¥	CTG L	CAGC
GAG	ATT GAA I	ACC T	CTT	ည္ပ	TTT F	ATG M	CAC H	CATC
CIG	ATT I	AAC	AAC N	ATG M	T L	AAC N	CCT	TTC
GCC A	71 1	CTA TAC	AGC S	Ę,	AAC N	AGT S	TCA S	:NGC
AAT N	CIC L	CTA L	AAG K	GAG TAC C	AAC N	CAG Q	TCT S	ricci
GTG V	AAG K	GAG E	AAG K	GAG E	TAC Y	TCC	A AC	2000
TGG W	GTA V	GAG E	STA V	2	CIC	OCC A	agc C	IGCA
N N	TTT F	CTG	GAT D	GTG V	CGG ACT (R T 1	TGT C	GAA	CAG
CIC	GAC D	AGG R	2 2 3 3 4	CTG	2 8 8	TCC	GCA A	5
CTG L	5T2 >	000 a	GTG V	წ ე	TTC	GTG V	151 C	TGA
GAG E	000 8				AGC S		ACC	CCC a
	GAT D			GAT D				CIG

2178 2258 2338 2418 2498 2578 2658 2730 2098 AGTGCAACCTGTCAAGCATGTCTGTCCTCCCTTCCTTACAATAGCCCCCCTCTGGGCCCCATGCCTCTGCTTCTCT AGCCCGTTCTCCTCCCCACTGATCACTGGCGCTCCTGTTGTCTTCCAAGGCAAGGAACAAGGAAAAAGCATCTTTTTGCCC CAAGCCTTCCCCACCTATCCCAATAGACCCTATTCCTCCATCAAAATCAAAGCTAACTCCTGGCCTGCCACATTGCTTC TICITIGCTCCAGCCTGTTAAACCTCCAATAAATGTCAGATCTGTGGGAAGCCTTCCTCACTCTCACTCCACAGTTTGTAC AGAGAGCGAGAGCCTCGTTTGGTTCTACTTACAAĞGAAGGCTTTGTGTCTGTCTGTCCTTCCCAACTGACTTCTGTTGAC ACAAAAGTITIAGGGCTCCCCGCTGTTCAACCATAGCCAACCTCACTGTACATCGGAGTCATCCAGGCCAGGTGCACACA **ATTTACTATATATACCTTTGTCATTCTGTGGAAGCAAAAATTTGCAATGTTTTTCCATGAATAAAGCTCGTGCC**

FIG. 3C

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QI

SEQ

Apply No.: 08/862,442 Page 6 of 20 Apply (s): Andrew W. Shyjan COMPOSITIONS AND METHODS FOR THE DIAGNOSIS, PREVENTION AND TREATMENT OF TUMOR PROGRESSION

	20	40	60	80 240	100	120 360	140 420	160 480	180 540	200
ACTCATTATAGGGNTCGAGCGGCCGCCCGGGCAGGTTTGAGCTGTGCCCTCTCCATTCCACTGCTGTGGCAGGGTCAGA AATCTTGGATAGAGAAAACCTTTTGCAAACGGGAATGTATCTTTGTAATTCCTAGCACGAAAGACTCTAACAGGTGTTG CTGTGGCCCAGTTCACCAACCAGCATATCCCCCCTCTGCCAAGTGCAACACCCAGCAAAAATGAAGAGAAAAGAGAAAACAG GTGGAGACTCAGCCTGAGAAATGGTTGCAAGCACACCCCAGAGCTACCCAACAAGATTCCTATGGAGTTCTTGAATT CCAGGGTGGCGGATATTCCAATAAAGCC	M Y I R V S Y D T K P D S L L H L M V K ATG TAT ATC CGT GTA TCC TAT GAC ACC AAG CCA GAC TCA CTG CTC CAT CTC ATG GTG AAA	D W Q L E L P K L L I S V H G G L Q N F GAT TGG CAG CTG GAA CTC CCC AAG CTC TTA ATA TCT GTG CAT GGA GGC CTC CAG AAC TTT I	E M Q P K L K Q V F G K G L I K A A M T GAG ATG CAG CCC AAG CTG AAA CAA GTC TTT GGG AAA GGC CTG ATC AAG GCT GCT ATG ACC	T G A W I F T G G V S T G V I S H V G D ACC GGG GCC TGG ATC TTC ACC GGG GGT GTC AGC ACA GGT GTT ATC AGC CAC GTA GGG GAT	A L K D H S S K S R G R V C A I G I A P 1 GCC TYG AAA GAC CCC AGA GGC CGG GTT TGT GCT ATA GGA ATT GCT CCA 3	W G I V E N K E D L V G K D V T R V Y Q TGG GGC ATC GTG GAG AAT AAG GAA GAC CTG GTT GGA AAG GAT GTA ACA AGA GTG TAC CAG	T M S N P L S K L S V L N N S H T H F I ACC ATC TCC AAC AAC TCC CAC ATC TTC AAC AA	L A D N G T L G K Y G A E V K L R R L L C TG GCT GAC GCT GAC GAG GTG AAG CTG CGA AGG CTG CTG CTG CTG CTG CTG CTG CTG CTG C	E K H I S L Q K I N T R L G Q G V P L V 1 GAA AAG CAC ATC TCC CTC CAG AAG ATC AAC ACA AGA CTG GGG CAG GGC GTG CCC CTC GTG 5	G L V V E G G P N V V S I V L E Y L Q E GGT CTC GTG GTG GGG GGC CCT AAC GTG GTG TCC ATC GTC TTG GAA TAC CTG CAA GAA $$

FIG. 5A

Appln No.: 08/862,442

Page 7 of 20

plicant(s): Andrew W. Shyjan

OMPOSITIONS AND METHODS FOR THE DIAGNOSIS,

PREVENTION AND TREATMENT OF TUMOR

PROGRESSION

220	240 720	260	280 840	300	320 960	340 1020	360 1080	380 1140	400
S TCC	L	A GCA	E GAG	S TCT	Q CAG	S AGC	K AAA	7 0 0 0	>
L CTG	O CAG	F	STCT	V GTA	SAGC	D GAC	ე გე	P CCC	IJ
IATC	E GAG	L CTG	G GGT	N AAC	R CGA	T ACG	R AGA	DGAC	Ø
GAC	R AGG	CAG	M ATG	ACA	& SCA	P	ල පු	T ACT	Ω
s TCG	L	H	R AGA	g GgA	I ATA	P	g GA	E GAA	h
4	s TCC	s TCA	F	K AAA	DGAC	A GCA	K AAG	E GAA	Σ
R CGT	E GAG	CAA	V GTG	L CTG	v GTG	L CTG	ACC .	E GAG	æ
ი <mark>გ</mark> მ	N AAT	A CA	T ACT	7 E	ය හි	s AGC	T ACC	v Grg	O
S AGC	I ATA	K AAG	V GTC	A GC	N AAC	g GA	8 8 8	e gaa	Щ
ဗ ဗွ	I ATA	n AAT	L CTC	T ACT	™ TGG	L CTG	M ATG	E GAG	ŋ
D GAT	ი ფგ	Y TAT	E	L TTA	A GCT	P	မ	K AAA	Ø
ဂ TGT	ပ ဗွ	N AAT	K AAA	I ATT	r Girs	T ACG	P P	V GTG	z
I ATT	E GAA	F	K AAG	₹ÿ	A S	w TGG	K AAG	K AAA	>
V GTG	E GAA	T ACA	K AAG	M ATG	L TIG	H	K AAG	ი გგ	×
V GTG	ာ TGT	K AAA	M ATG	E GAG	s AGC	۵ کی	E GAG	K AAA	z
P CCT	Y TAC	CAS CAS	၁ ညီ	I	1 CTG	ე ეტე	A.A.G	K AAG	ы
IATIC	K AAG	I ATT	E GAG	D GAC	O &	F	E GAG	K AAG	ч
م ک	CAC	T ACC	M ATG	C.A.G.	GAT	V GTC	T ACG		ធា
PCCT	& & 300 300	V GTT	I ATA	Q CAG	P C	F	& CC	K AAA	н
E GAG	F	L CTA	I ATT	ი გ	A GCT	I	K AAA	ი გე	×

FIG. 5B

Appln No.: 08/862,442 Pages of 20 Apple of t(s): Andrew W. Shyjan COM SITIONS AND METHODS FOR THE DIAGNOSIS, PREVENTION AND TREATMENT OF TUMOR PROGRESSION

1860	
CAT	
AAG	
TAT	
TCC	
CAG	
GAC	
TTA	
TTA	
GAG	
TTG	
GCT	
CIT	
CAG	
ည	
TTC	
GAC	
\$	

1200	420 1260	440 1320	460 1380	480 1 44 0	500 1500	520 1560	540 1620	560 1680	580 1740	600	620 1860
GTC	F ITT	L	L	T ACT	L CIT	K AAG	Y TAT	F	K AAG	D GAT	ł \T
		_	•		_			_		_	H G CAT
r TTA	H CAC	ACA	s AGC	Y C TAC	A GCT	K AAA	O CAG	V GTG	Y TAC	L TTG	K ' AAG
GCT	CAA	N AAC	I ATC	N AAC	k Aaa	K AAA	F	A GCA	L CIC	D GAC	Y TAT
GAT	M ATG	P CCA	H	ာ ၂၀	PCCT	A A A	ار ان	M ATG	K AAG	O CAG	s TCC
CTA	N AAC	PCCA	Y TAC	ස විට	R AGG	k AAA	S AGT	K AAA	ပည္သင္သင္	S	Q CAG
ATG	V GTG	s GGT	D GAT	Y TAC	K AAG	K AAG	V GTG	Q CAG	₽	I ATC	DGAC
90	ი ფგ	L CTG	PCCT	A GCC	P CCA	ი გ	& CC	ය රි	v GTG	D GAC	L TTA
CAA	N AAC	R AGA	P CCG	ი გე	c GGA	A A A A	PCCT	A A A A	1 E	D GAT	L TTA
GAG	E GAA	T ACA	L	G GGA	F	A GCT	DGAC	M ATG	A GCC	V GTG	E GAG
TAIG	I ATT	NAAC	N AAC	M ATG	L TTG	о ССА	D GAC	L CTG	K AAG	CTC	L TTG
GCT	r CTG	Y TAT	SAGC	L CTC	N AAC	PCCT	V GTG	V GTG	A GCC	D GAT	A GCT
AAT	L CTC	L CTT	K AAG	Y TAC	N AAC	E GAG	D GAT	A GCA	M ATG	S AGT	L
GTG	K AAG	E GAG	K AAA	E	$^{ m Y}$	D GAT	I ATT	w TGG	s AGC	E GAG	O CAG
TGG	V GTG	E	V GTG	r CTG	CIT	D	D GAC	v GTG	E GAG	s Tcc	ი ემ
AAC	F TPT	L CTG	D GAT	V GTG	T ACC	E GAA	I ATC	M ATG	E GAA	s TCC	F
CTG	GAC	R AGG	R AGG	L CTC	ය දු	MATG	E GAG	71 CT 62	უ ე	E GAG	D GAC
CIG	V GTC	P	V GTG	ი გ	F	ი გ მ	GAA	E GAG	R GGA	H CAC	A K
GAG	R CGT	I ATT	L CTG	I ATC	N AAC	r Cf	E GAG	CAC CAC	C.A.G.	A GCC	S
AAG ATA	D GAT	TACC	L CTG	D GAC	k AAA	L Ciri	K AAG	F	¥ TGG	M ATG	n AAT
AAG	L TTA	CTG	H	I ATA	იმც	AAA AAA	K AAA	CCC	CTC L	A GCC	AAC

Appln No.: 08/862,442

Page 9 of 20

plicant(s): Andrew W. Shyjan

MPOSITIONS AND METHODS FOR THE DIN NOSIS,

PREVENTION AND TREATMENT OF TUMOR

PROGRESSION

FIG. 5D

40	80	80 40	00	20	40 20	80	80 40	00	20 60
640 1920	660 1980	680 2040	700	720 2160	740	760 2280	780 2 340	800	820 2460
₽ ACC	Q CAG	K AAG	D GAT	N AAT	K AAA	K AAG	L	s AGC	K AAA
S TCG	S AGC	CTG	Y TAT	E GAA	AAA	V GTC	IATC	V GTG	CAG
N AAC	ာ ညီ	ი მ	T ACA	E GAG	H CAT	IATT	v GTC	I	s AGC
s AGC	TACC	P CCC	۳ O	E GAA	E GAG	P CCC	$^{ m Y}$	Y TAC	Cic
¥ TGG	H CAC	N AAC	F	K AAA	N AAC	A GCG	N AAC	S TCC	X AAA
AAC	A GCT	K AAG	E	E	EGAG	N AAC	F	I ATC	ဗ ဗ္ဗ
AAA	I ATT	ය වි	13 ET	A A A A	E GAG	$^{ m Y}$ TAT	L CTG	V GTC	P
r CTG	F	M ATG	F TTT	ဗ ဗွ	D GAT	F	7. ST	I ATC	E GAA
E GAG	GAC	ය රි	L TTG	D GAT	ა ეტ	A AAA	L CTG	w TGG	s TCA
Y	75 75	L CTG	I ATC	E	K AAG	c TGT	Y	E GAG	M ATG
T ACC	CAC	R AGA	T ACC	N AAC	R AGA	IATC	ი ემ	Q CAG	r CHO
L CTG	K AAA	G GGA	P CCC	E	s TCA	K AAA	L TTG	L CTC	I ATC
CIC	A GCC	M ATG	P CCC	K AAG	_დ ც	T ACA	Y TAC	s TCC	E GAG
AAA	A GCA	¥ TGG	L	S	A GCT	G GGA	s TCA	P	R CGA
M ATG	V GTG	M ATG	CIT	T ACA	D GAT	I ATC	I ATA	W TGG	I ATA
A GCT	A GCC	D GAT	I ATT	CA.	A G	۳ د	T ACA	ი <u>გ</u>	k AAG
I	L CTG	ACC.	ა გ	Y TAT	N AAT	I ATC	Y TAC	D GAT	E GAG
O S	K AAA	L CTG	M ATG	s TCG	A GCA	I ATT	F	M ATG	TTA
E GAG	CTC	L CTG	I	F	D GAT	R AGA	¥ M	R CGG	8 909
D GAC	၁ ဥ	MATG	V GTT	D GAT	T ACG	CAA	F	v GTG	r Si

Appln No.: 08/862,442

Page 10 of 20 Appendics: 65/662,442

Appendics: Andrew W. Shyjan

COM-OSITIONS AND METHODS FOR THE DIAGNOSIS,

PREVENTION AND TREATMENT OF TUMOR

PROGRESSION

840 2520	860 2580	880 2 64 0	900	920 2760	940 2820	960	980 2940	1000	1020 3060	1040
F	M ATG	A GCC	P CCC	I ATT	I ATC	circ Circ	S TCC	V GTC	უ ეტ	F
ACA	D GAC	CAA	M ATG	E GAA	C TGT	I ATC	I ATA	P CCA	S AGC	ri Circ
S TCC	I ATC	R CGT	Y TAC	MATG	P CCC	N AAC	S	AGG	r CTC	K AAG
I ATT	M ATG	A GCC	F	& CC	PCCT	8 9 9 9	K AAA	D GAC	R CGT	ri Tir
A GCC	M ATG	V GTA	I ATC	Y TAC	L CTT	V GTC	V GTA	H CAT	MATG	ი გე
o c	K AAG	ი გე	N AAC	Circ	ස දි	L CTG	E GAA	F	I ATT	R CGT
$_{ m CTC}$	G GGA	F	R CGA	DGAC	K AAG	L	F	T ACA	I ATC	D GAT
D GAT	I ATT	S AGT	A GCC	I ATA	ი გ	Y TAT	F	M ATG	I ATC	გე
T ACA	M ATG	M ATG	L CTG	CAG	E GAG	ပည့်	T ACC	I ATT	Y TAC	E GAA
I ATC	M ATG	CTC	K AAA	D	E GAG	გ ე	N AAT	1. ST	I ATC	E GAG
AAC	V GTG	V GTG	w TGG	A GCA	D GAT	M ATG	N AAC	CAG	H	o es
¥ TGG	S	V GTC	S TCT	F	Y TAT	r Si	F	Y TAT	s AGC	D GAC
Y TAC	R AGA	J CTC	CCC	V GTG	L	A S	V GTG	R CGA	L TTA	ი გ
E GAG	T ACG	M ATG	K AAG	E GAG	n AAC	P CCA	A GCT	C.A.G.	I ATT	E GAA
CAG	A GCC	I ATC	E GAG	ი გეგ	E GAG	T ACT	I ATT	F	I ATC	R AGA
L	M ATG	V GTC	E GAG	$^{ m Y}_{ m TAT}$	g GGT	CHC	L CTG	K AAG	M ATG	K AAG
w TGG	GCA GCA	V GTG	P CCA	I	C TGT	₩ TGG	r CTC	w TGG	PCCG	A A A A
V GTT	ი ფვ	F	H	M ATG	PCCT	A GCC	N AAC	V GTG	PCCA	AGG
K AAA	I ATT	Y TAC	L CTG	w TGG	PCCT	ဗ ဗွ	V GTG	CAG	P CCC	ပ ၌
I ATC	M ATG	r Gra	I ATT	Y	N AAT	CCC	L CTG	AAC AAC	CTG	မှ ည

Appln No.: 08/862,442 Page 11 of 20 icant(s): Andrew W. Shyjan COMPOSITIONS AND METHODS FOR THE DIACOSIS, PREVENTION AND TREATMENT OF TUMOR PROGRESSION

1060 3180	1080 3240	1100	1120 3360	1140 3420	1160 3480	1180 3540	1200 3600	1220 3660	1240 3720
H	S	M ATG	R AGA	R CGG	S	D GAT	I ATA	L	L TTA
E GAG	TACT	F	N AAC	GC _A	n AAT	E GAG	R CGT	H	D GAC
CAG	V GTC	TACT	S TCT	Q CAG	I ATC	F	F	CIT	D GAT
V GTG	ස හි	E GAA	ı Ti	I ATC	s AGC	L TTA	S TCC	S AGT	V GTA
ပ ဍ	I ATC	R AGA	E GAA	L	s AGC	L TTA	c TGT	N AAC	SC A
CAG	ස හි	E GAA	E GAA	D GAC	CAA	E GAG	TACC	CAG	CIT
E GAG	E GAG	N AAT	L CTA	S TCT	۳ کی ک	E GAA	K AAA	c TGT	H CAC
E GAG	D	I ATC	C.A.G	R AGG	r Crc	G GGA	K AAA	E GAA	S AGT
F	s AGC	E GAA	A GCT	D GAC	Cir	N AAC	R AGG	P CCA	ဗ ဗွ
E GAG	S TCC	E GAA	CIT	I ATC	Y TAT	F	V GTC	V GTC	D
H CAT	s TCG	L TTG	R CGA	G GGA	T ACG	H CAT	G GA	L	CCA P
L CTG	Q CAG	R AGG	L CTT	SCG SCG	A GCA	Y TAT	T ACA	Н	T ACC
R AGG	Q CAG	M ATG	D GAC	L CTT	E GAG	R CGA	უ ე	T ACG	A G
K AAG	E GAG	S	V GTT	N AAT	ဂ TGT	$^{ m Y}$	CCA	K AAA	S
CTA	D GAT	M ATG	T ACT	E GAA	E GAA	r TTG	S TCA	crc c	ACA
E GAG	E GAG	N AAT	CAG CAG	L CIT	S	S	T. ACG	D GAC (S AGC
E GAG	K AAG	E GAA	L CTG	A GCT	s TCT	Y TAC	S	K AAG	T ACA
GAC	E GAG	V GTT	s TCC	N AAT	A GCT	် ၁၁၂	L CTC '	E GAG	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
s AGC	8 9	R AGA	T ACT	crc c	7 S	D GAT (s TCT (E GAA (L CTG (
Crr	F	GAA	X AAA	M ATG	s TCC (A GCT (T ACA	K AAG (S TCA (

FIG. 5F

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Appln No.: 08/862,442 Page 12 of 20 Applicates): Andrew W. Shyjan COMPOSITIONS AND METHODS FOR THE DIAGNOSIS, PREVENTION AND TREATMENT OF TUMOR PROGRESSION

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Appin No.: 08/862,442 Page 13 of 20 Appin No.: 08/862,442 Page 13

CCAGGGTGGCGGATATTCCAATAAAGCC
GTGGAGACTCAGCCTGAGAAATGGTCTGTTGCAAGCACACCCAGAGCTACCCCAACAGATTCCTATGGAGTTCTTGGAATT
CTGTGGCCAGTTCACCAACCAGCATATCCCCCCTCTGTGCAAGTGCAAAACCCAAAAAAAA
AATCTTGGATAGAGAAAACCTTTTGCAAACGGGAATGTATCTTTGTAATTCCTAGCACGAAAGACTCTAACAGGGAAAGACTCTAACAGGGAAAGACTCTAACAGGGAAAGACTCTAACAGGGAAAGAAA
ACTCATTATAGGGNTCGAGCGCCCCCGGGCAGGTTTGAGCTGTGCCCTCTCCATTCCACTGTGTGTG

20	40 120	60 1 80	80 2 4 0	300	120 360	140 420	160 480	180 540	200
K AAA	F ITT	T ACC	D GAT	P CCA	O CAG	I ATC	L CTG	V GTG	e Gaa
v GTG	N AAC	M ATG	ე ეტ	A GCT	Y TAC	F	r CTG	LCTC	CAA
M ATG	CAG	A GCT	V GTA	I ATT	V GTG	H	R AGG	೧೦೧	CTG
CTC	L CTC	A GCT	H	5 6	R AGA	T ACC	R CGA	V GTG	Y TAC
H CAT	ာ တွ	k AAG	s AGC	I ATA	T ACA	H	r CTC	ი ემ	GAA
r CHO	. p	I ATC	I ATC	A GCT	V GTA	S TCC	K AAG	CAG	L TTG
r CfG	H CAT	r CTG	V GTT	C TGT	D GAT	N AAC	V GTG	ა ეტე	v GTC
S	V GTG	ပ ညွှ	o GGT	V GTT	K AAG	N AAC	E GAG	L CTG	IATC
D GAC	S TCT	K AAA	ACA	ස රිටි	ი ფ	L	A	r Aga	S TCC
P CCA	I ATA	უ ე	s AGC	ი გმ	V GTT	v GTG	ი გ	TACA	V GTG
K AAG	L TTA	F TYTY	V GTC	R AGA	L CTG	S TCT	Y TAT	N AAC	v GTG
T ACC	r Si	V GTC	G GGT	s TCC	GAC	J SF	K AAG	I	N AAC
D GAC	K AAG	CAA	ე ე	K AAG	E	K AAG	ი გ	K AAG	P
$^{ m Y}$	P CCC CCC	к ААА	T	S TCC	K AAG	S AGT	r CHS	O CAG	ი გ
s TCC	CTC	r CTG	F	s TCC	n AAT	L CTA	T	L	ი გგ
V GTA	GAA	k AAG	I ATC	CAC	E GAG	P	ი ე	s TCC	E GAG
R CGT	r CTC	P CCC	¥ ₹	D GAC	V GTG	N AAC	N AAT	IATC	V GTG
I ATC	C.A.G.	C.A.G.	A GCC	K AAA	I ATC	s TCC	GAC CAC	H CAC	V GTG
Y TAT	™ TGG	M ATG		1 113	ი მ	M ATG	A GCT		
MATG	D GAT	E GAG	T	& CC	₩ TGG	T ACC	L CTG	GAA	G GGT

FIG 6A

Applanto.: 08/862,442 Page 41 of 20 Applant (s): Andrew W. Shyjan COMPOSITIONS AND METHODS FOR THE DIAGNOSIS, PREVENTION AND TREATMENT OF TUMOR PROGRESSION

FIG. 6B

220 660	240 720	260 780	280 840	300	320 960	340 1020	360 1080	380 11 4 0	400
S TCC	L CIT	A GCA	E GAG	S TCT	O CAG	s AGC	K AAA	ж 2	>
r CTG	CAG	F Tip	S TCT	V GTA	SAGC	DGAC	ු දුර	P CCC	ы
I ATC	E GAG	L CTG	G GGT	N AAC	R CGA	T ACG	R AGA	D GAC	æ
DGAC	R AGG	CAG	M ATG	T ACA	A CA	P CC CC CC	G GGA	T ACT	Ω
s TCG	CIC	H CAT	R AGA	G GGA	I ATA	P CCC	G GGA	E	1
A	s TCC	s TCA	F	K AAA	DGAC	A CA	K AAG	E	Ħ
R CGT	E GAG	CAA	V GTG	$^{ m L}_{ m CTG}$	V GTG	L CTG	TACC	E	Ø
ი გე	n AAT	A S	T ACT	L CTG	ස හි	s AGC	T ACC	V GTG	Ø
s AGC	I ATA	K AAG	V GTC	A GCC	N AAC	o GGA	A GCC	E GAA	四
ი გ	I ATA	n AAT	CIC	TACT	¥ TGG	L CTG	M ATG	E GAG	H
D GAT	ი ფგ	Y TAT	E GAA	L TTA	A GCT	P	P	AAA	Ø
c TGT	ი მ	N AAT	A AAA	I ATT	r Greg	T ACG	PCCA	V GTG	z
I ATT	E GAA	F	K AAG	4 Å	& SS	™ TGG	K AAG	K AAA	>
V GTG	E GAA	T ACA	K AAG	M ATG	L TTG	H	к AAG	ა ე	3
V GTG	n TgT	K AAA	M ATG	E GAG	s AGC	P CCC	E GAG	AAA	z
PCCT	Y TAC	CAG CAG	၁	I ATC	L CTG	უ ე	K AAG	K AAG	Ч
IATC	K AAG	I ATT	E GAG	DGAC	O CAG	F	E GAG	K AAG	IJ
P (C)	H	T ACC	M ATG	O CAG	D GAT	V GTC	T ACG	ဗ ဗ္ဗ	ы
PCCT	A GCG	V GTT	I ATA	O CAG	P A	F	A GCC	K AAA	н
E	F	L	I ATT	ი მ	A GCT	I ATC	AAA	ე ე	×

Appln No.: 08/862,442

Page 15 of 20

plicant(s): Andrew W. Shyjan

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1200	420 1260	440 1320	460 1380	480 1440	500 1500	520 1560	540 1620	560 1680	580 1740	600	620 1860
GTC	F TTT	L	L	T ACT	L CTT	K AAG	Y TAT	F	K AAG	D GAT	H
TTA	Н	ACA →	s AGC	Y T'AC	A GCT	K AAA	CAG	V GTG	Y TAC	r Tr	K AAG
GCT	CAA	N AAC	I ATC	N AAC	K AAA	K AAA	F	A GCA	CTC	D	$^{ m Y}$
GAT	M ATG	4 D	CAC	ပည္သင္	P CCT	K AAA	7. 200	M ATG	K AAG	C.A.G	s Tac
CTA	AAC	PCCA	Y TAC	75 CGC	R AGG	K AAA	S AGT	A A A	ပ ညီ	s Tcc	C.A.G
ATG	V GTG	o GGT	D GAT	Y TAC	K AAG	K AAG	v GTG	CAG	& Ω Ω	I ATC	GAC
වුදුල	G GGA	L CTG	PCCT	& CC	P CCA	ა ე	₽	ය රි	V GTG	D	L TTA
CA.	N AAC	R AGA	P CCG	ი გ მ	ල දු	AAA	PCCT	ж Ада	7 CT	D GAT	L
GAG	E GAA	T ACA	Cirr	o GA	F	A GCT	D GAC	MATG	4 900	V GTG	E GAG
TTG	I ATT	N AAC	N AAC	M ATG	L TTG	CCA	D GAC	r CTG	K AAG	L CTG	l Te
GCT	L CTG	$_{\mathtt{TAT}}^{\mathtt{Y}}$	s AGC	L CTC	N AAC	PCCT	V GTG	V GTG	A SCC	D GAT	A GCT
AAT	r CFC	CTT	K AAG	Y TAC	N AAC	E GAG	D GAT	GCA GCA	MATG	S AGT	73 E
GTG	K AAG	E GAG	K AAA	E GAG	Y TAC	D GAT	I ATT	¥ TGG	s AGC	E GAG	O AS
T GG	v GTG	E GAG	v GTG	r CTC	City	D GAT	D GAC	V GTG	e Gag	s TCC	ပ ဗွ
AAC	F	L CTG	D GAT	V GTG	T ACC	E	I ATC	M ATG	E GAA	S TCC	F
CTG	D	R AGG	R AGG	r CTC	СGG	M ATG	E GAG	1 CTG	ე ე	e Gag	D GAC
CTG	V GTC	P	v GTG	ე გ	F	ი გმ	E GAA	E GAG	CG.	CAC	K AAA
GAG	R CGT	I ATT	7. FJ	I ATC	AAC	L CTG	E GAG	CAC	C.A.C.	& 000 000	န
ATA	D GAT	T ACC	r CTG	D GAC	K AAA	L CTT	K AAG	F	₩ TGG	M ATG	N. AAT
AAG	L TTA	CTG	H CAT	I ATA	7 D	K AAA	X AAA	PCCC	r Circ	₹	N AAC

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Appln No.: 08/862,442 Page 16 of 20 Appl 16 (s): Andrew W. Shyjan COMPOSITIONS AND METHODS FOR THE DIAGNOSIS, PREVENTION AND TREATMENT OF TUMOR PROGRESSION

640 1920	660 1980	680 2040	700	720 2 160	740 2220	760 2280	780 23 4 0	800 2400	820 2 46 0
T ACC	Q CAG	K AAG	D GAT	N AAT	K AAA	K AAG	L CTG	S AGC	K AAA
s TG	S AGC	CIG	Y TAT	GAA	K AAA	V GTC	I ATC	V GTG	CAG
N AAC	ာ်ဦ	ი ემ	T ACA	E GAG	H CAT	I ATT	v GTC	I ATC	s AGC
s AGC	TACC	GC PP	8 9	E GAA	E GAG	P CCC	Y TAC	Y	L
₹ TG	CAC	AAC	F	AAA AAA	N AAC	A GCG	N AAC	S TCC	K AAA
AAC	A GCT	K AAG	GAA	E GAA	E GAG	N AAC	F	IATC	ი გ
A A A	I ATT	۳ کی م	7 T	A A A	E GAG	Y TAT	L CTG	V GTC	P CCA
r GfG	F	M ATG	F TTY	ი გ	DGAT	F	L CTG	I ATC	E GAA
E GAG	DGAC	8 8 8	L TTG	D GAT	ුත වි	k AAA	r CTS	¥ 7G	s TCA
Y	R CGG	L CTG	I ATC	E GAG	K AAG	ာ TGT	Y TAC	E	M ATG
T ACC	H	R AGA	T ACC	N AAC	R AGA	I ATC	၁ ဗွ	CAG	L CTC
L CTG	k AAA	g GgA	P	E GAA	S	K AAA	L TTG	1 5 15	I ATC
CTC	A GCC	M ATG	P	K AAG	ი მ	ACA	Y TAC	s TCC	E GAG
K AAA	A SS	7G ≅	r. CTA	S	A GCT	ი გ მ	s TCA	P CCG	R CGA
M ATG	V GTG	M ATG	CIT	AC 4	D GAT	I ATC	I ATA	w TGG	I ATA
A GCT	& ΩCC	D GAT	I ATT	o ₹	A GCA	P	T ACA	ი ემ	K AAG
IATIC	7. C.T.C	T ACC	ე ე	Y TAT	N AAT	I ATC	Y TAC	D GAT	E GAG
୍ଦ ଧୂ	K AAA	r CTG	M ATG	s TCG	gg a	I ATT	F	M ATG	I I
E GAG	CfC	r CTG	I ATC	F	DGAT	R AGA	w TGG	ж Од	₹ 9
D GAC	ပဌင္	M ATG	V GTT	D GAT	T ACG	o ₹	F	V GTG	r Gr

FIG. 6D

Appln No.: 08/862,442

Page 17 of 20 icant(s): Andrew W. Shyjan

COMPOSITIONS AND METHODS FOR THE DIAGNOSIS,

PREVENTION AND TREATMENT OF TUMOR

PROGRESSION

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F	I ATC	K AAG	V GTG	P CCA	I ATC	C TGT	W TGG	L CTG	₩ IGG	P CCG
ACA	V GTG	N AAC	F	H	M ATG	P CCT	A 500	N AAC (or c	ч <u>С</u>
S TCC	R CGG	v GTC	Y TAC	L CTG	¥ TGG	CCT	၁ ၁ ၁	V GTG	CAG	ე ეეე
I ATT	ი გ	s GGT	L CTG	I ATT	$^{ m Y}$	N AAT	ر الاد	r CTG (AAC 0	CTG (
A	Y TAT	F	M ATG	& ΩCC	P	I ATT	IATC	CTG	s TCC ,	V GTC (
v GTG	ი გ	I ATC	D GAC	CAA	M ATG	E GAA	ာ TGT	IATIC	I ATA	P CCA
L CTC	M ATG	D GAC	I ATC	R CGT	Y TAC	M ATG	မ	N AAC	S	R AGG
D GAT	Y TAC	r CfG	M ATG	A CC	F	A GCC	PCCT	A CC	K AAA	GAC GAC
T ACA	P ()	orc Circ	M ATG	V GTA	I ATC	Y TAC	L	V GTC	V GTA	H
IATC	CAS SAG	R CGT	K AAG	ი გვ	N AAC	L CTC	۳ کی ک	L CTG	E GAA	F
AAC	N AAC	I ATC	G GGA	F TTC	R CGA	DGAC	K AAG	L CTA	F	ACA
W TGG	CAG CAG	Y	I ATT	S AGT	A GCC	I ATA	ი გგ	Y TAT	F	M ATG
Y	L	¥ TGG	M ATG	M ATG	L CTG	C.A.G.	E GAG	၁ ညီ	ACT.	I ATT
GAG	ය රි	F	M ATG	CIC	K AAA	GAC	E GAG	A GCG	N AAT	L
C.A.G.	CIT	I ATC	V GTG	V GTG	TGG	A S	D GAT	M ATG	N AAC	CAG
Ciri	I ATT	IATC	Y TAC	V GTC	S	F	Y TAT	CIC	F	Y TAT
¥ 5	4 Å	D GAT	P CCA	L CTG	P	V GTG	L CTA	A GCA	v GTG	R CGA
V GTT	ი გე	v GTG	ი გ	M ATG	K AAG	E GAG	N AAC	CCA	A GCT	CAG
K AAA	I ATT	C TGT	L CTG	IATC	E GAG	ი წმ	E	ACT.	I ATT	F
IATC	MATG	Y TAC	Y TAT	V GTC	GAG	Y TAT	G GGT	r City	13 E	AAG .
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Apply No.: 08/862,442 Page of 20 Apply It(s): Andrew W. Shyjan COMPOSITIONS AND METHODS FOR THE DIAGNOSIS, PREVENTION AND TREATMENT OF TUMOR PROGRESSION

1060 3180	1080 3240	1100	1120 3360	1140 3420	1160 3480	1180 3540	1200 3 60 0	1220 3660	1240 3720
K 3 AAA	E GAG	K S AAG	E r gaa	r CTG	P GCT	S r TCT	Y C TAC	s TCC	K G AAG
R AGG	GAC	E GAG	V GTT	S	N AAT	GCT.	၁ ည	r CHO	E GAG
ဂ ဦ	S AGC	ემე	r Aga	TACT	v GTG	ж ССС	D GAT	S TCT	E GAA
ද රි	CIT	F	E GAA	K AAA	M ATG	S TCC	A GCT	T ACA	K AAG
ဗ ဗ္ဗ	F	H	S TCT	M ATG	R AGA	R CGG	s AGC	D GAT	I ATA
s AGC	L CTC	E GAG	TACT	F	AAC	A SS	N AAT	E GAG	R CGT
CIC	K AAG	CAG	V GTC	T ACT	STCT	CAG	IATC	F	F
R CGT	L TTG	v GTG	გ ემე	GAA	L TTA	I ATC	s AGC	L TTA	s TCC
M ATG	g GGA	ပ ညီ	I ATC	R AGA	GAA	CTG	s AGC	L TTA	C TGT
I ATT	R CGT	CAG CAG	% QQ CQ	GAA	E GAA	D GAC	CAA GAA	E GAG	ACC.
I ATC	D GAT	E GAG	E GAG	n AAT	L CTA	S TCT	გ ეც	E GAA	AAA
IATC	55 55	E GAG	D GAC	I ATC	Q CAG	R AGG	r St	ი გვ	k Aaa
Y	GAA	F	S AGC	E GAA	A GCT	D GAC	L	N AAC	R AGG
I ATC	E GAG	E GAG	S	GAA	L	I ATC	Y TAT	F	V GTC
CAC	CAA CAA	H CAT	s TCG	L TTG	R CGA	ი გე	T ACG	H	G GGA
s AGC	D GAC	1 CF .	C.A.G	R AGG	L CTT	A GCG	A GCA	Y TAT	TACA
r TT	ი გე	R AGG	CAG CAG	M ATG	GAC	CIT	E GAG	R CGA	ი გ
I ATT	E GAA	K AAG	E GAG	ა ქე	V GTT	N AAT	ဂ TGT	Y TAT	P CCA
I ATC	R AGA	CITA	D GAT	M ATG	ACT.	E GAA	E GAA	I IIG	s TCA
MATG	K AAG	E GAG	E GAG	n AAT	CAG	Ciri	S TCT	s AGC	T ACG

FIG. 6F

Appln No.: 08/862,442

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Page 19 of 20

PROGRESSION

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T ACA	E	GAC	CAG	TACT	N AAT	GGT	w TGG	S TCG	H : CAT
ი ეე	A GCT	ACA	ი გეგ	ი გგ	IATC	V GTC	E GAA	V GTG	H CAC
L CTG	N AAC	Q CAG	H	E GAA	T ACG	r CTG	T ACG	I ATT	E GAA
s TCA	K AAG	R AGA	I ATA	i ATA	E GAA	K AAG	TACG	$^{ m Y}$	D
L CIT	L TTA	E GAA	V GTG	n AAT	D GAT	R AGA	L TTG	P CCT	CAA
H CAC	D GAC	D GAT	D GAT	ACA	P CCC	ල සුවූ	CAA	I ATT	M ATG
CTT	D GAT	D GAT	T ACA	T ACG	F	გე	Q CAG	D GAT	D GAT
S AGT	V GTA	E GAA	K AAA	E GAA	Y TAT	s TCC	DGAC	ACA	& SC
N AAC	A GCA	K AAG	N AAT	v GTG	ය රි රි	Y TAT	T ACG	s AGC	F
C.A.G	L CTT	S	r TTA	ACA	T ACA	V GTC	I ATC	H CAT	CAG
C TGT	H	I ATT	S AGT	L CTA	I ATT	F	S TCA	S	E GAG
GAA	s AGT	ა ე	PCCA	CAG	k AAA	S AGC	S AGT	8 8 9	AAA AAA
P CCA	ဗ ဗ္ဗ	I ATT	s TCC	T ACT	T ACC	R AGA	Y TAC	T ACG	CAA
V GTC	D GAT	D	I ATT	N AAC	GAA	s TCC	E GAG	I ATC	E GAG
L	P	PCCA	TACT	CAA CAA	E GAA	K AAG	V GTA	K AAG	A GCT
C.A.C.	T ACC	g GGT	GAA	V GTT	7. C. F.	M ATG	D GAT	CAA	o g
T ACG	A GCA	r TTA	GAA	DGAT	P CCC	ACA	CAG CAG	V GTT	> GTG
K AAA	S	K AAA	K AAA	S	Y TAT	K AAA	N AAC	O &	gg a
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Apple No.: 08/862,442 Page 20 of 20 Apple of t(s): Andrew W. Shyjan COMPOSITIONS AND METHODS FOR THE DIAGNOSIS, PREVENTION AND TREATMENT OF TUMOR PROGRESSION

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